

Discover24 Green

Single Use Gamma Irradiated Hollow Fiber Cartridges

Easy and Reliable



The **Discover Green** hollow fiber membrane cartridges are the cartridges of choice for small scale preparative protein and virus concentration/diafiltration, and cell clarification applications for volumes that range from 50 ml to 400 ml. The **Discover24 Green** cartridges have a membrane surface area of 107 cm², providing a typical permeate flow rate of 32-64 ml/hr for ultrafiltration applications and 21-43 ml/hr for microfiltration applications.

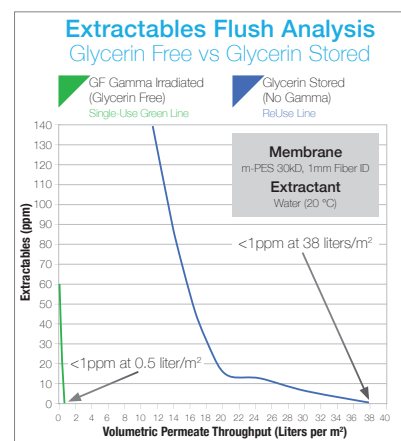
The **Discover Green** cartridges require no assembly or pre-rinsing and incorporate WaterSep's low binding, antifouling, modified polyethersulfone membrane (m-PES), which provides high process flux and total capacity with short process times and nearly 100% product recovery.

The fluid path length for the **Discover24 Green** cartridges is similar to all other WaterSep 24" (60 cm) hollow fiber cartridges making scale up and scale down very easy and predictable.

Every HF cartridge is integrity tested and has an individual lot number for easy traceability.

The **Discover24 Green** cartridges offer a true single use crossflow system that provides:

- Significant cost savings over traditional cassette formats.
- Gamma irradiated - ready to use - no pre-rinse.
- No humectants - 80% less extractables, see [Extractables Flush Analysis](#).
- No need for time-consuming cleaning validation.
- Reduced risk of cross contamination.
- Consistent membrane performance batch to batch.
- Self-contained – no assembly – no expensive hardware – no membrane installation.



TYPICAL APPLICATIONS

- Clarification of **mammalian/CHO cell** cultures, providing maximum protein recovery.
- **Cell-harvest**. Excellent results have been achieved with both *E. Coli* whole cells and *E. Coli* lysates, as well as other microbial process streams.
- Concentration and purification of **vaccines**.
- Concentration and diafiltration of **gene therapy** products.
- Concentration/diafiltration of **monoclonal antibodies, recombinant proteins, biological macromolecules and peptides**.

Discover24 Green

ORDERING INFORMATION

Place orders online at www.watersep.net, or email purchase orders to orders@watersep.net, sales order confirmation to follow.

Discover24 Green HF Cartridge

0.5 mm Fiber ID*

SU XXX 05DIS24 L6, 6/pkg

SU XXX 05DIS24 LD, 12/pkg

*Not available in 0.65 μ m

1.0 mm Fiber ID

SU XXX 10DIS24 L6, 6/pkg

SU XXX 10DIS24 LD, 12/pkg

2.0 mm Fiber ID*

SU XXX 20DIS24 L6, 6/pkg

SU XXX 20DIS24 LD, 12/pkg

*Available in 10K, 50K, 300K - 750K and 0.1 μ m - 0.45 μ m

Replace XXX with:

003 for 3K	100 for 100K	910 for 0.1 μ m
005 for 5K	300 for 300K	920 for 0.2 μ m
010 for 10K	500 for 500K	945 for 0.45 μ m
030 for 30K	750 for 750K	965 for 0.65 μ m
050 for 50K		

SPECIFICATIONS

Cartridge Dimensions

0.38" (0.95 cm) x 24.38" (61.93 cm)

Membrane Surface Area

0.115 ft² (107 cm²)

Molecular Weight Cut-off

3K, 5K, 10K, 30K, 50K, 100K, 300K, 500K, 750K

Membrane Pore Size

0.1 μ m, 0.2 μ m and 0.45 μ m, 0.65 μ m

Fiber ID

0.5 mm, 1.0 mm, 2.0 mm

MATERIALS OF CONSTRUCTION

The cartridge as assembled is USP Class VI compliant.

Membrane

Modified Polyethersulfone (m-PES)

Housing

White Polysulfone

Encapsulant

Epoxy

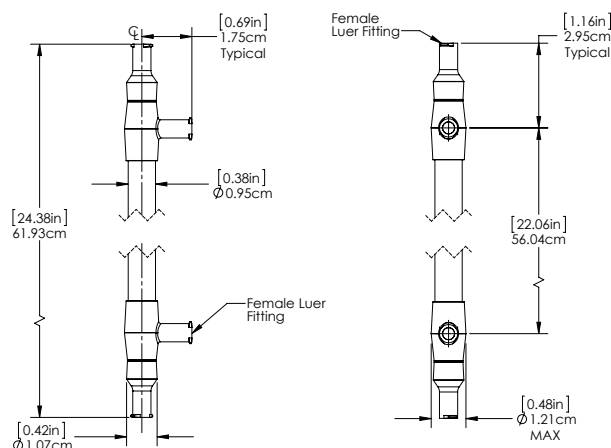
CONNECTIONS

Feed/Retentate

Female Luer Lok Fitting

Permeate

Female Luer Lok Fitting



Technical Support: experttalk@watersep.net
or call 508.970.0089 x 204.